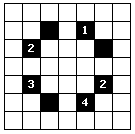
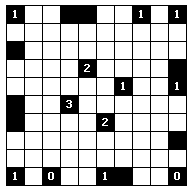
**Problem of the Week #8 Q3**

Due in the Math Office “POW Box” 2/24/11 by 3:15 PM

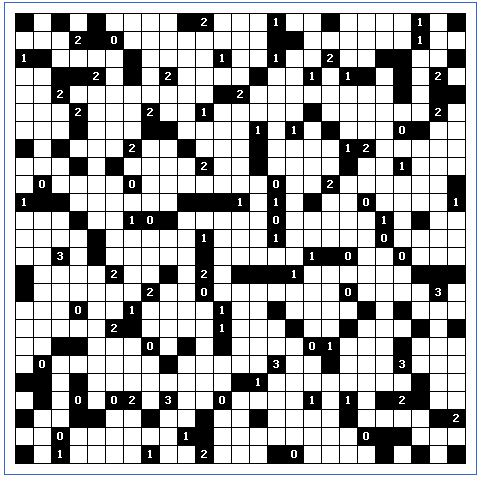
***Secure the Premises!* Puzzle**

**Regular Puzzles (1 ticket combined)**





**Challenge Puzzle (+1 ticket)**



***Secure the Premises!* Rules**

***Secure the Premises!* (or, the Laser Security Challenge)** is a logic puzzle with simple rules and challenging solutions.

The rules are simple. *Secure the Premises!* is played on a rectangular grid. The grid has both black cells and white cells in it.

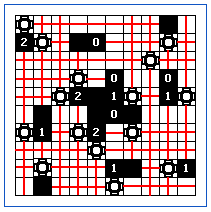
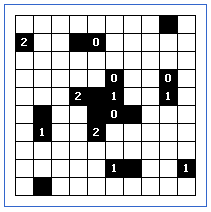
The objective is to place laser towers on the grid so that every white square is “secured”.

A laser tower secures a cell if they're in the same row or column, and if there are no black cells (walls) between them.

Some of the black cells have numbers in them. A number in a black cell indicates how many lasers share an edge with that cell.

Also, ***no laser tower can be placed in the path of another laser tower*** – they have trouble telling lasers apart from intruders…

Example puzzle with solution:



Instructions taken (and modified) from <http://www.puzzle-light-up.com/>